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# Abbreviations/Acronyms

2.5G	two and a half generation	<b>B</b>	
3G	third generation	BAWT	broadband arbitrary waveform transmitter
<b>A</b>		BBNG	broadband noise generator
AAMA	American Automobile Manufacturers Association	BCSM	basic call state model
A/D	analog to digital	BIOT	British Indian Ocean Territory
AGILE	advanced generation of interoperability for law enforcement	B-ISDN	broadband ISDN
AIS	automatic identification system	BPSK	binary phase shift keying
ALE	automatic link establishment	BW	bandwidth
AM	amplitude modulation	BWCF	bandwidth correction factor
AMPS	advanced mobile phone service	<b>C</b>	
ANS	American National Standard	CCIR	International Radio Consultative Committee (now ITU-R)
ANSI	American National Standards Institute	CD	compact disk
APCO	Association of Public Safety Communications Officials	CDMA	code division multiple access
APD	amplitude probability distribution	CD-ROM	compact disk read-only memory
APRE	audio play, record, and estimate	CELP	code excited linear predictor
ARQ	automatic repeat request	CJ	criminal justice
ARSR	air route surveillance radar	CP	circularly polarized
ASIC	application specific integrated circuit	CPS	coplanar strip
ASR	airport surveillance radar	CPW	coplanar waveguide
ATB	antenna testbed	CRADA	cooperative research and development agreement
ATBM	anti-tactical ballistic missile	CRPL	Central Radio Propagation Laboratory
ATCBI	air traffic control beacon interrogator	CRSMS	Compact Radio Spectrum Measurement System
ATIS	advanced traveler information system	CSELT	Centro Studi e Laboratori Telecomunicazioni
	Alliance for Telecommunications Industry Solutions	CSPT	Communication System Planning Tool
ATM	asynchronous transfer mode		

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<b>D</b>		FPGA	field programmable gate array
DAB	digital audio broadcasting	FTP	file transfer protocol
dB	decibel	FTSC	Federal Telecommunications Standards Committee
DF	direction finding	FTTA	Federal Technology Transfer Act
DGPS	differential GPS	FY	fiscal year
DOA	direction of arrival		
DOC	Department of Commerce		
DoD	Department of Defense	<b>G</b>	
DQPSK	differential quadrature phase-shift key	G3G	global third generation
DSCP	digital sampling channel probe	GETS	Government Emergency Telecommunications Service
DSL	digital subscriber line	GHz	gigahertz
DSP	digital signal processing	GIF	graphics interchange format
DSRC	dedicated short-range communication	GIS	geographic information system
DTV	digital television	GLOBE	global land one-km base elevation
DUT	device under test	GO	geometric optics
		GPRS	general packet radio service
<b>E</b>		GPS	Global Positioning System
E911	enhanced 911	GSM	Global System for Mobile
EDGE	enhanced data rates for global evolution	GTD-UTD	geometric theory of diffraction - uniform theory of diffraction
EHF	extremely high frequency	GUI	graphical user interface
EMC	electromagnetic compatibility	GWEN	Ground Wave Emergency Network
ESSA	Environmental Science Services Administration		
		<b>H</b>	
<b>F</b>		HALO	high altitude long operation fixed-wing aircraft
FAA	Federal Aviation Administration	HAPS	high altitude platform station
FCC	Federal Communications Commission	HDTV	high definition television
FDTD	finite-difference time domain	HELIOS	high altitude long endurance solar-powered aircraft
FED-STD	Federal Standard	HF	high frequency
FEMA	Federal Emergency Management Agency	HP	Hewlett-Packard Company
FHWA	Federal Highway Administration	HPC	high probability of connectivity
FIT	flexible interoperable transceiver	HPGL	HP graphics language
FM	frequency modulation		

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HTML	hypertext markup language	ITU-R	International Telecommunication Union-Radiocommunication Sector
HTTP	hypertext transfer protocol	ITU-T	International Telecommunication Union-Telecommunication Standardization Sector
<b>I</b>			
IBOC	in-band on-channel		
ICMP	Internet control message protocol	<b>J</b>	
IE	integral equation	JEM	Jammer Effectiveness Model
IEEE	Institute of Electrical and Electronics Engineers	<b>K</b>	
IF	intermediate frequency	kHz	kilohertz
IMBE	improved multi-band excitation		
IMT 2000	International Mobile Telecommunications 2000	<b>L</b>	
I/N	interference to noise	LAN	local area network
INFOSEC	information system security	LMDS	local multipoint distribution service
IP	Internet protocol	LMR	land mobile radio
IPSEC	IP security protocol	LOS	line-of-sight
IRAC	Interdepartment Radio Advisory Committee	LP	linearly polarized
ISART	International Symposium on Advanced Radio Technologies	LULC	land use/land cover
ISDN	integrated services digital network	<b>M</b>	
ISM	industrial, scientific, and medical	Mb	megabyte
ISSI	inter-RF subsystem interface	MHz	megahertz
IT	information technology	MIL-STD	military standard
ITAC-T	International Telecommunications Advisory Committee — Telecommunications	MMDS	multichannel multipoint distribution service
ITM	Irregular Terrain Model	MNB	measuring normalizing block
ITS	Institute for Telecommunication Sciences	MPEG	Motion Picture Experts Group
	Intelligent Transportation System	MPLS	multiprotocol label switching
ITSA	Institute for Telecommunication Sciences and Aeronomy	MSC	mobile switching center
ITU	International Telecommunication Union	MSTV	Association for Maximum Service Television, Inc.

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<b>N</b>		OTAR	over-the-air rekeying
NASTD	National Association of State Telecommunications Directors	OTP	Office of Telecommunications Policy
NCITS	National Committee for Information Technology Standards	<b>P</b>	
NCS	National Communications System	PBS	Public Broadcasting System
nDGPS	nationwide differential GPS	PBX	private branch exchange
NGDC	National Geophysical Data Center	PC	personal computer
NII	national information infrastructure	PCM	pulse code modulation
NIJ	National Institute of Justice	PCS	Personal Communications Services
NIST	National Institute of Standards and Technology	PDO	Program Development Office
NMLM	normalized maximum likelihood method	PIN	personal identification number
NOAA	National Oceanic and Atmospheric Administration	PLC	packet loss concealment
NPRM	Notice of Proposed Rule Making	PM	parallelogram method
NSA	National Security Agency	PN	pseudo-random
NS/EP	National Security and Emergency Preparedness	PPM	pulse position modulated
NSTISSI	National Security Telecommunications and Information Systems Security Instruction	PRF	pulse repetition frequency
NTIA	National Telecommunications and Information Administration	PRN	pseudo-random noise
NVESD	Night Vision Electronic Sensors Directorate	PS	public safety
<b>O</b>		PSP	Public Safety Program
O&M	operations and maintenance	PSTN	public switched telephone network
OBS	obstructed	PSWAC	Public Safety Wireless Advisory Committee
OLES	Office of Law Enforcement Standards	PSWN	public safety wireless network
OMB	Office of Management and Budget	<b>Q</b>	
ORTA	Office of Research and Technology Applications	QoS	quality of service
OSM	Office of Spectrum Management	<b>R</b>	
OT	Office of Telecommunications	R&D	research and development
		RBOC	Regional Bell Operating Company
		RDBMS	relational database management system
		RF	radio frequency
		RFIMS	Radio Frequency Interference Monitoring System

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RMS	root mean square	U	
RSEC	radar spectrum engineering criteria	UAV	unmanned air vehicle
RSMS	Radio Spectrum Measurement System	UHF	ultra high frequency
RUS	Rural Utilities Service	UMTS	universal mobile telecommunications system
<b>S</b>		URL	uniform resource locator
SCP	service (signal?) control point	URSI	International Union of Radio Science
SDH	synchronous digital hierarchy	U.S.	United States
SDL	specification and description language	USCG	U.S. Coast Guard
SDMA	space division multiple access	USSG	U.S. study group
SDR	software defined radio	US WEST	US West Advanced Technologies, Inc.
SG	study group	UTRA	UMTS terrestrial radio access
SIP	session initiation protocol	UWB	ultrawideband
SNR	signal-to-noise ratio	<b>V</b>	
SOC	system on a chip	VHDL	VHSIC hardware description language
SONET	synchronous optical network	VHF	very high frequency
SPIE	International Society for Optical Engineering	VHSIC	very high speed integrated circuit
SPS	standard positioning service	VME	Versa Module Eurocard
SRD	standard requirements document	VoIP	voice over Internet protocol
SS7	signaling system no. 7	VQEG	Video Quality Experts Group
SV	space vehicle	VSA	vector signal analyzer
S-VHS	super VHS (Video Home System)	VSWR	voltage standing wave ratio
<b>T</b>		VXI	VME bus extension for instrumentation
TA Services	Telecommunications Analysis Services	<b>W</b>	
TCP	transmission control protocol	W3C	World Wide Web Consortium
TDMA	time division multiple access	W-CDMA	wideband CDMA
TIA	Telecommunications Industry Association	WCTF	Wireless Communication Task Force
TIREM	Terrain Integrated Rough Earth Model	WDM	wave division multiplexing
TSB	Telecommunications Systems Bulletin	WIN	wireless intelligent network
TV	television	WWW	worldwide web

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